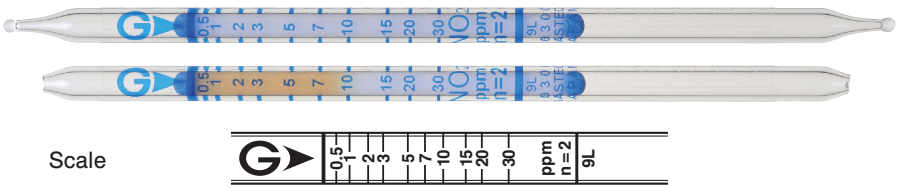
Nitrogen Dioxide NO_2 No.9L



Scale

Performance

Measuring range	0.5 to 30 ppm	30 to 125 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)
Correction factor	1	by scale
Sampling time	1 min	30 sec

Detecting limit : 0.1 ppm (2 pump strokes)
Colour change : White → Yellowish orange
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 10 % (for 0.5 to 10 ppm), 5 % (for 10 to 30 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 36 months

Reaction principle

NO_2 + o-Tolidine → Nitroso-o-Tolidine

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Bromine, Chlorine	≧ 1/5	+	Yellowish orange
Nitric oxide	≧ 50 ppm	Unclear demarcation	Pale red
Ammonia		No	No
Carbon dioxide		No	
Carbon monoxide		No	
Organic gases and vapour		No	
Sulphur dioxide	≧ 10 ppm	− (Bleaching)	

Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Iodine	Factor : 0.4	2	0.2 to 12 ppm

Calibration gas generation

Permeation tube method